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Docket No.: F1866.0065

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Tomohiro Igakura

Application No.: 09/960,548

Confirmation No.: 5904

Filed: September 20, 2001

Art Unit: 2161

For: FILE MANAGING SYSTEM

Examiner: T. Y. Chen

APPEAL BRIEF

U.S. Patent and Trademark Office
220 20th Street S.
Customer Window, Mail Stop Appeal Brief - Patents
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Dear Sir:

As required under § 41.37(a), this brief is filed within two months of the Notice of Appeal filed in this case on May 27, 2005, and is in furtherance of said Notice of Appeal.

You are hereby authorized to charge our credit card for the fee of \$500.00 required under Section 1.17(f). PTO Form 2038 is attached.

In the event a fee is required or if any additional fee during the prosecution of this application is not paid, the Patent Office is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 50-2215.

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CONTINGENT EXTENSION REQUEST

If this communication is filed after the shortened statutory time period had elapsed and no separate Petition is enclosed, the Commissioner of Patents and Trademarks is petitioned, under 37 CFR 1.136(a), to extend the time for filing a response to the outstanding Office Action by the number of months which will avoid abandonment under 37 CFR 1.135. The fee under 37 CFR 1.17 should be charged to our Deposit Account No. 50-2215.

This brief contains items under the following headings as required by 37 C.F.R. § 41.37 and M.P.E.P. § 1206:

- I. Real Party In Interest
- II Related Appeals and Interferences
- III. Status of Claims
- IV. Status of Amendments
- V. Summary of Claimed Subject Matter
- VI. Grounds of Rejection to be Reviewed on Appeal
- VII. Argument
- VIII. Claims
- IX. Evidence
- X. Related Proceedings
- Appendix A Claims

I. REAL PARTY IN INTEREST

The real party in interest for this appeal is:

NEC Corp.

II. RELATED APPEALS, INTERFERENCES, AND JUDICIAL PROCEEDINGS

There are no other appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in this appeal.

III. STATUS OF CLAIMS

A. Total Number of Claims in Application

There are 17 claims pending in application.

B. Current Status of Claims

1. Claims canceled: None
2. Claims withdrawn from consideration but not canceled: None
3. Claims pending: 1-17
4. Claims allowed: None
5. Claims rejected: 1-17

C. Claims On Appeal

The claims on appeal are claims 1-17

IV. STATUS OF AMENDMENTS

Applicant filed an Amendment After Final Rejection on March 31, 2005. The Examiner contacted the Applicant's representative to discuss the arguments presented in the March 31 Response. Applicant did not have the file and was unable to discuss the claims in depth. Applicant's representative called the Examiner back but the

Advisory Action of May 4, 2005, was already mailed. In the Advisory Action, the Examiner indicated that Applicants' proposed amendments to the claims would not be entered. However, there were no unentered amendments at the time the Advisory Action was issued.

Accordingly, the claims enclosed herein as Appendix A incorporate the amendments filed by Applicant on August 27, 2004, considered in the Final Office Action mailed March 31, 2005.

V. SUMMARY OF CLAIMED SUBJECT MATTER

The present invention relates to a file management system. Particularly, the claimed file system is able to manage files having the same title, but different contents, as separate files; while managing a plurality of files having different titles, but different content, as a single file. See p. 1, lines 6 – 13. For example, three files can be entitled “file A.” Assume that these three files have different contents – specifically function A, function B, and function C. Because each of these files have different contents, the files will have different Managing IDs. See p. 16, lines 19 – 25. Likewise, had two or more of these files had the same contents, the files with the same contents would share a Managing ID. See p. 15, lines 15 – 25.

According to the present invention, when a file ID and a file are input into the system, the system first checks whether the same title has been previously registered. See p. 20, lines 2 – 10. If the file name already exists, the system checks the hash table to determine whether or not the file has been previously registered. See p. 20, line 11 – 14; Fig. 5. If there is no identical hash value, the file has not been previously registered. If no hash value, a new managing ID corresponding to the file must be registered. However, the hash value exist – the file to be registered is compared with the files corresponding to the managing ID obtained from the hash table. See Fig. 5,

506. If a file is detected having the same content, its file management ID is set to be that corresponding to the file to be registered. If, however, there is no file having the same content, a new managing ID corresponding to the file is created. See Fig. 5, 508; page 21, lines 13 – 22. The file is then stored with the managing ID. The managing ID is registered in the hash value. The managing ID corresponding to the file and file ID are finally registered for retrieval. See page 22, lines 1 – 5 and Fig. 5.

When requesting a file, a file request for inputs: a file title and file ID. The system then verifies the correspondence table with a key with a given file name and file ID. See Fig. 6, 602. If a managing ID is retried from the correspondence table, the file is retrieved from memory and output to the user. If no managing ID is obtained from the correspondence table, an error is returned to the user. See page 22, lines 10 – 26.

In another embodiment of the invention, the file retriever retrieves the file from memory to obtain a managing ID that is not used for any other file. The file to be registered is stored with the managing ID in memory. See page 27, lines 1 – 10; Fig. 7. Next, the system verifies whether the same title has been previously registered. If a file exists with the same name, the system refers to the hash table. If a managing ID is obtained as a result of the hash table reference, the file to be registered is compared to the file from the hash table. If the content is the same, the file management ID is set so that it corresponds to the file to be registered. In contrast, if the content is different, the managing ID is registered in a hash table. See page 28, lines 3 – 20; Fig. 7.

In the present file managing system a user does not have to avoid using the same file title as that of other files, as the file managing system can operate using the same file name for files having the same title as different contents. Likewise, if users give the same content different file names, the system can treat each of those as identical files – thereby eliminating the need to store multiple copies of the same file. See page 32, lines 1 – 12.

VI. GROUNDS OF OBJECTION TO BE REVIEWED ON APPEAL

Applicant requests review of the final rejection of claims 1 – 3, 7 and 12 under the 35 U.S.C. §102(e) as being anticipated by U.S. Patent No.: 6,560,631 (“Ishihara”).

Applicant requests review of the final rejection of claims 4 – 6, 8 - 11 and 13 – 17 under 35 U.S.C. §103(a) as being unpatentable over Ishihara in view of U.S. Patent No.: 5,109,511 (“Nitta”).

- A. The rejection of claims 1-3, 7 and 12 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,560,631 (“Ishihara”).
- B. The rejection of claims 4-6, 8-11, and 13-17 under 35 U.S.C. § 103(a) as being unpatentable over Ishihara in view of U.S. Patent No. 5,109,511 (“Nitta”).

VII. ARGUMENT

Claims 1 – 17 are pending and have been examined in the present application. All of the claims are in condition for allowance, and any pending rejections should be withdrawn.

Claims 1-3, 7 and 12 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,560,631 (“Ishihara”). Applicant respectfully requests reconsideration and withdrawal of this rejection.

To anticipate a claim under 35 U.S.C. § 102, the cited reference must disclose every element of the claim, as arranged in the claim, and in sufficient detail to enable one skilled in the art to make and use the anticipated subject matter. See, PPG Industries, Inc. v. Guardian Industries Corp., 75 F.3d 1558, 1566 (Fed. Cir. 1996); C.R. Bard, Inc. v. M3 Sys., Inc., 157 F.3d 1340, 1349 (Fed. Cir. 1998). A reference that does not expressly disclose all of the elements of a claimed invention cannot anticipate

unless all of the undisclosed elements are inherently present in the reference. See, Continental Can Co. USA v. Monsanto Co., 942 F.2d 1264, 1268 (Fed. Cir. 1991).

With respect to claim 1, the Office Action asserts that Ishihara discloses a file management system that discloses managing a plurality of files having the same file title but different contents at column 6, lines 21-26, and managing a plurality of files having the same contents but different titles as a single file at column 7, lines 6-13. Applicant respectfully disagrees.

In Ishihara, conventional systems have every data file identified by its file name and path name in conjunction with a node name assigned to the computer that stores it. Such systems allow a plurality of computers to hold two data files sharing the same file and path names but having completely different contents. As noted in Ishihara, this is a potentially problematic situation which makes it difficult to manage the data files in a unified manner. Ishihara notes that it is desirable to introduce a unified naming convention that enables unique identification for each individual object in a distribution system environment as well as to develop a framework that provides associations between such names and their corresponding objects.

Computers in Ishihara store cached copies of files. These cached files are not managed by the file management system, but are local copies of remote data and program files, which are referred to as "cached files" and have the same names as their original files. When a work area is created on a computer, and if the computer lacks some necessary resource files, the missing files are fetched from other computers and saved in the computer's local storage as cached files. Such cached files are stored temporarily and deleted after expiration of a predetermined period. Under the control of the process execution controller 174, cached files are accessible to authorized users in a shared manner. This shared access capability reduces the frequency of file transfer operations, thus alleviating possible increase of network traffic. Ishihara's naming

convention permits each data or program file to be uniquely identified in a distributed computing environment. Col. 7. Lns. 6-22.¹ Thus, the cached files have the same content, are uniquely identified and handled individually. In contrast, claim 1 explicitly recites a manager for managing a plurality of files having the same content but different titles as a single file.

Further, the Ishihara system allows local copies of remote data and program files which are referred to as cached files. These cached files are fetched from other computers and saved to the local storage as cached files. These cached files have the exact same title and the same content as the original as shown in Figures 11 and 12. As such, Ishihara fails to disclose a plurality of files having the same contents but different titles as asserted by the Office Action.

Applicant explicitly claims that the file managing system is capable of managing files having the same file title and different content as well as files having the same content but different titles. This is not disclosed by the single file manager in Ishihara. As such, Applicant respectfully requests reconsideration and withdrawal of this rejection.

Claims 2, 3, and 12 each require a data processor for producing and recording, if no file has the same contents as any of the files recorded in the file memory, a new managing ID for a new file to be registered in the file memory. As recited in the pending claims, when no file has the same contents as the file to be registered, a new managing ID is produced and recorded.

The Final Office Action asserts that this feature is disclosed at column 12, lines 1-16. Applicants respectfully disagree. At column 12, lines 1-16, Ishihara

¹ It should be noted that FIG. 12 only shows individual cached files names, creation date, and the server the file is stored on.

discloses a process execution controller activating a warehouse server and registering various data to those servers. A resource management server then collects and records information about the warehouse servers and their respective local storage. Finally, a cache management server is executed. Each time a cached file is created in a warehouse server, the cache management server updates its cache management table for further management. However, at no point does Ishihara disclose producing and recording in the file memory a new managing ID for a new file if no file has the same content as any of the files to be registered.

In Ishihara, each time a cache file is created, the cache management server updates its cache management table using the same identifier as the warehouse server file. As this merely keeps the file name consistent throughout a network. Thus, Ishihara's system cannot be utilized to maintain files on a single system or use a single file management system to maintain files. In Ishihara, there are multiple file management systems each maintaining files on each of the servers. Thus, there is never a need in Ishihara for producing a new managing ID and registering in the file memory the new managing ID and a file to be registered as explicitly recited in Applicant's claim. Therefore, Applicant respectfully requests that the Examiner reconsider and withdraw the rejection to claims 2, 3, and 12.

Claims 4-6, 8-11, and 13-17 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Ishihara in view of U.S. Patent No. 5,109,511 ("Nitta").

To establish a *prima facie* case of obviousness, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify a reference or combine references to arrive at the claimed subject matter. The prior art references must also teach or suggest all the limitations of the claim in question. See, M.P.E.P. § 706.02(j). A reference can only be used for what it clearly discloses or suggests. See, In re

Hummer, 113 U.S.P.Q. 66 (C.C.P.A. 1957); In re Stencel, 4 U.S.P.Q.2d 1071, 1073 (Fed. Cir. 1987). Here, the references, whether taken individually or in combination, do not disclose or suggest the invention claimed by the Applicant.

Claims 4-6 and 13-17 depend from allowable claims as discussed above. Further, the Final Office Action asserts that "claims 8-11 and 9-16, these claims recited the same subject matter as claims 2-6 and 13-15 in form of method, since the features of these claims have been disclosed or suggested by the combined system as discussed above, hence these claims are rejected for the same reason." See Office Action at 5. As discussed above, Ishihara fails to disclose the system claimed in the claims referred to by the Examiner. The addition of Nitta fails to cure the deficiencies in Ishihara discussed above. As such, Applicant respectfully requests reconsideration and withdrawal of this rejection.

Applicant has responded to all of the rejections and objections recited in the Office Action. Reconsideration and a Notice of Allowance for all of the pending claims are therefore respectfully requested.

VI. CLAIMS

A copy of the claims involved in the present appeal is attached hereto as Appendix A. As indicated above, the claims in Appendix A include the amendments filed by Applicant on August 27, 2004.

VII. EVIDENCE

No evidence pursuant to §§ 1.130, 1.131, or 1.132 or entered by or relied upon by the examiner is being submitted.

VIII. RELATED PROCEEDINGS

No related proceedings are referenced in II. above, or copies of decisions in related proceedings are not provided, hence no Appendix is included.

Dated: 7/27/05

Respectfully submitted,

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APPENDIX A

Claims Involved in the Appeal of Application Serial No. 09/960,548

1. A file managing system for managing files comprising:
a manager for managing a plurality of files having the same file title but different contents as separate files, and for managing a plurality of files having the same content but different titles as a single file.
2. A file managing system for managing files, comprising:
a file input unit for sending, to a data processor, inputted files, file titles, and file IDs to be registered;
a file request input unit for sending, to the data processor, a file title of a requested file and a file ID;
a memory unit including a correspondence table and a file memory, the correspondence table including correspondence relationships of file titles, file IDs and managing IDs, the file memory for recording, managing IDs and files;
the data processor including:
a means for producing and recording, if no file has the same content as any of the files recorded in the file memory, a new managing ID for a new file to be registered in the file memory;
a means for retrieving files from the file memory using managing IDs;
a means for sending the retrieved file to a file outputting unit,

a file content comparing means for comparing the content of the new file to be registered and the contents of files registered in the file memory,

a means for registering, if a same content file has been registered in the file memory, the file title, the file ID, and the managing ID of the same content file in the correspondence table, and

a means for retrieving the correspondence table; and

the file output unit for sending, to the file request input unit, the file corresponding to the file title and the file ID requested from the file request input unit as delivered from the data processor.

3. A file managing system for managing files, comprising:

a file input unit for sending, inputted files file titles, and file IDs to be registered to a data processor;

a file request input unit for sending to the data processor, an inputted file title and a pertinent file ID;

a memory unit including;

a correspondence table, in which correspondence relationships of file titles, file IDs and managing IDs are recorded;

and a file memory, in which managing IDs and files are recorded;

a data processor including:

a means for producing a new managing ID and registering, in the file memory, the new managing ID and a file to be registered,

a file deleting means for deleting, if a same content file has been registered in the file memory, the managing ID and the file registered in the file registering means,

a means for retrieving the file memory with managing IDs for obtaining corresponding files,

a means for sending out the obtained files to a file output unit,

a file content comparing means for comparing the content of a file to be registered with the contents of the files registered in the file memory,

a correspondence table registering means for registering, in the correspondence table, the file titles to be registered, the file IDs to be registered and the new managing IDs,

a correspondence table updating means for updating, if a same content file has been registered in the file memory, the contents registered in the correspondence table registering means with the file titles to be registered, the file IDs to be registered and the managing ID of the same content file, and

a means for retrieving the correspondence table; and

the file output unit sending out, to the file request input unit, the file corresponding to the file title and the file ID requested from the file request input unit as delivered from the data processor.

4. The file managing system according to claim 2, wherein the memory unit further includes hash tables in which relationships of hash values of files and managing

IDs are recorded, the data processor includes a hash table retrieving means for retrieving the hash tables with hash values of files to be registered and a hash table registering means for registering, if no same content file has been registered in the file memory, the hash values of files to be registered and corresponding managing IDs in the hash tables, and the file content comparing means compares the content of a file corresponding to a managing ID in the case of obtaining identity as a result of the retrieval in the hash table retrieving means and the content of the pertinent file to be registered.

5. The file managing system according to claim 4, wherein the hash tables are each provided for each file title, and the hash table retrieving means decides, if no same title file as the file title of the any retrieved file has been registered in the file memory, that no hash table retrieval result is present, and retrieves, if a same title file has been registered in the file memory, the hash table corresponding to the file title of the same title file with the hash value of the pertinent file to be registered used as a key value.

6. The file managing system according to claim 4, wherein only a single hash table is provided for all file titles.

7. A file managing method for managing files, wherein a plurality of files having the same file title but different contents are managed as separate files, while

also managing a plurality of files having the same content but different titles as a single file.

8. A file managing method for managing files comprising the steps of:

inputting, by a file registering person, files to be registered, the file titles thereof and a file ID;

retrieving hash tables, in which correspondence relationships of hash values of files and managing IDs are recorded, by using the hash values of the files to be registered as key values;

taking out, if a managing ID is obtained as a result of the hash table retrieval, the file corresponding to the obtained managing ID from a file memory and compares the content of the taken-out file and the contents of the files to be registered;

registering, if the content of the taken-out file is the same as the content of a file to be registered, the file title to be registered, the file ID to be registered and the managing ID of the taken-out file in a correspondence table; and

producing, if no identity is obtained as a result of the hash table retrieval or if no same content file is detected although identity is obtained as a result of the hash table retrieval, a new managing ID, registering the new managing ID thus produced and the corresponding file to be registered in the file memory, registering the new managing ID in the hash table with the hash value of the file to be registered used as a key value, and registering the file title to be registered, the file ID to be registered and the new managing ID in the correspondence table.

9. A file managing method for managing files comprising the steps of:

inputting, by a file registering person, files to be registered, file titles thereof and a file ID;

producing new managing IDs corresponding to the files to be registered and registering the produced managing IDs and the files to be registered in a file memory;

registering file titles to be registered, a file ID to be registered and the new managing IDs in a correspondence table;

retrieving hash tables, in which correspondence relationships of hash values of files and managing IDs are recorded, by using the hash values of the files to be registered as key values;

retrieving, when a managing ID is obtained as a result of the hash table retrieval, the file memory to take out the file corresponding to the obtained managing ID and comparing the content of the taken-out file and the contents of the files to be registered;

updating, if the content of the taken-out file is the same as a file to be registered, the new managing ID registered in the correspondence table to the managing ID corresponding to the taken-out file, and deleting the new managing ID registered in the file memory and the files to be registered from the file memory; and

registering, if no identity is obtained as a result of the hash table retrieval or if no same content file is detected although identify is obtained as a result of the hash

table retrieval, the new managing ID in the hash table with the hash values of the files to be registered as key values.

10. The file managing method according to claim 8, wherein the hash tables are each provided for each file title, in the hash table retrieval each hash table is retrieved for any file having the same file title as a file to be registered, decides, if no same title file has been recorded, that no retrieval result is present, and retrieves, if a same content file has been recorded, the hash table corresponding to the file title of the same title file with the hash value of the file to be registered used as a key value.

11. The file managing method according to claim 8, wherein the hash table is provided for all of file titles.

12. A file managing method for managing files comprising the steps of:
inputting, by a file requester, the file title of a desired file and the corresponding file ID;
retrieving a correspondence table, in which file titles, file IDs and managing IDs are recorded, with the inputted file title and file ID;
obtaining, from the correspondence table, the file title corresponding to the inputted file title and file ID and a managing ID corresponding to the inputted file ID;
retrieving a file memory, in which managing IDs and files are recorded, with the obtained managing ID;

obtaining, for the file memory, a file corresponding to the obtained managing ID; and

sending out the obtained file as the desired file to the file requester.

13. The file managing system according to claim 3, wherein the memory unit further includes hash tables in which relationships of hash values of files and managing IDs are recorded, the data processor includes a hash table retrieving means for retrieving the hash tables with hash values of files to be registered and a hash table registering means for registering, if no same content file has been registered in the file memory, the hash values of files to be registered and corresponding managing IDs in the hash tables, and the file content comparing means compares the content of a file corresponding to a managing ID in the case of obtaining identity as a result of the retrieval in the hash table retrieving means and the content of the pertinent file to be registered.

14. The file managing system according to claim 13, wherein the hash tables are each provided for each file title, and the hash table retrieving means decides, if no same title file as the file title of the any retrieved file has been registered in the file memory, that no hash table retrieval result is present, and retrieves, if a same title file has been registered in the file memory, the hash table corresponding to the file title of the same title file with the hash value of the pertinent file to be registered used as a key value.

15. The file managing system according to claim 13, wherein only a single hash table is provided for all file titles.

16. The file managing method according to claim 9, wherein the hash tables are each provided for each file title, in the hash table retrieval each hash table is retrieved for any file having the same file title as a file to be registered, decides, if no same title file has been recorded, that no retrieval result is present, and retrieves, if a same content file has been recorded, the hash table corresponding to the file title of the same title file with the hash value of the file to be registered used as a key value.

17. The file managing method according to claim 9, wherein the hash table is provided for all file titles.